



PROJECT "E-COMMERCE"

CLASS: OBJECT ORIENTED PROGRAMMING

STUDENTS: SAVU COSMIN

AND

ŞICHET DARIUS

GROUP:30421

PROFESSOR: ARON BAKA BALINT



TABLE OF CONTENTS

- SPECIFICATION
- DESIGN, DESCRIPTION AND USE CASES
- USER INSTRUCTIONS
- STRUCTURE AND CODE PRESENTATION
- FURTHER IMPROVEMENT IDEAS



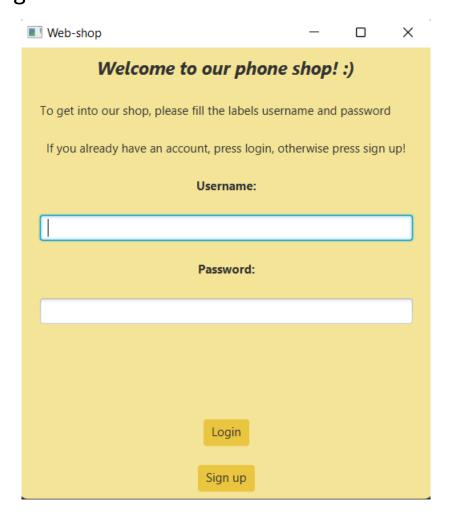
SPECIFICATION

The purpose of this project is to design an E-Commerce store which may be applicable in real world. That being said, the store will be a phone store through which users will be able to purchase their desired phones by registering on the platform. The store's interface has an easy-to-understand structure, so it can be used by any user. This store was created using a database for storing information, but also Java FX and Scene Builder for defining interfaces.



DESIGN, DESCRIPTION AND USE CASES USER INSTRUCTIONS

The idea behind this phone shop is to provide an easy way for the customers to purchase the phones they desire. In this sense, the homepage was designed, called login view.

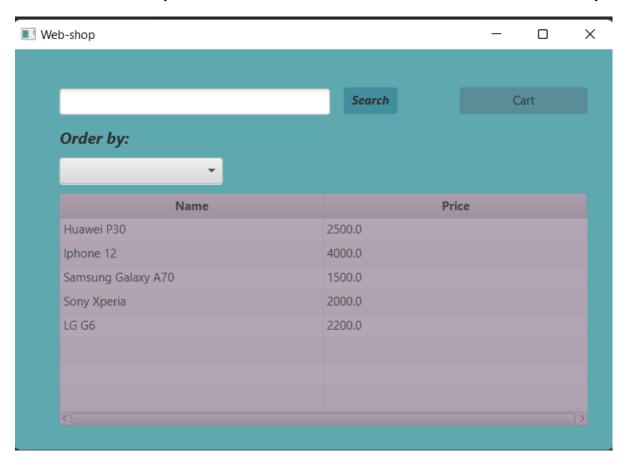


Here, the users can enter the store by filling the labels Username and Password. If the user already has an account, then will press the button login to get into the



shop, otherwise will press the button Sign up to create a new account and get into the shop. In the case someone introduces a wrong username or password, a message will be displayed showing that an error has occurred.

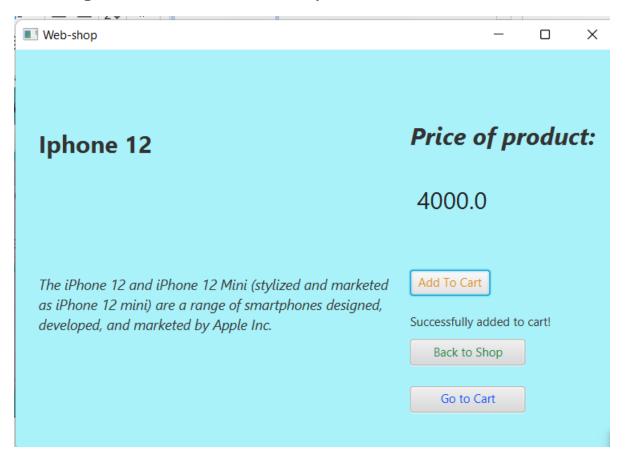
Afterwards, the shop view will be displayed, giving access to the products available and listed on the shop.



Here, the user can search a certain object by searching its name, or order the list of products by choosing the preferred option: Order by price ascending, Order by price descending or display the products in alphabetical



order. Then, one can enter in the product view by clicking on the name of the product of interest.



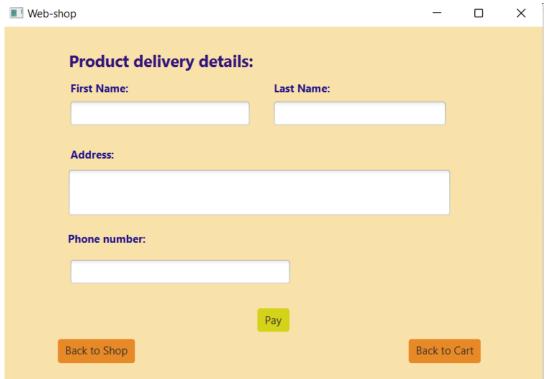
Here, the user can add a certain product to its cart and by pressing the button "Add to cart", or can go back to the shop view and cart view by pressing the buttons "Back to Shop", if the customer is interested in other products. If the user wants to enter the cart, he can easily access it by pressing the "Go to cart" button.



Web-shop			- 0	×
			Logout	
Name	Price	Quantity		
lphone 12	4000.0	2		
Samsung Galaxy	1500.0	1		
Total: 9500.0 Update				
	Order		Back to Sho	ор

In the cart view, the user can change the quantity of the products they want. That being said, if the user changes the quantity and presses the update button, the total price of the products will change, and if he changes the quantity of a product to 0, that product will disappear from the cart. After pressing the "Order" button, a new window will open, where the customer can fill the labels with information regarding the shipping.



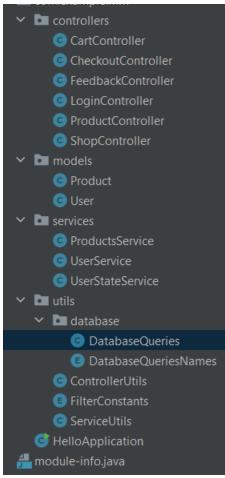


From this window, the customer can go both in the cart or shop, or he can buy the objects selected by pressing buy. By pressing the pay button, a new window is activated, representing the feedback view.

Web-shop	_	×
The selection for the second second		
Thank you for your purchase!		
Back to the shop		



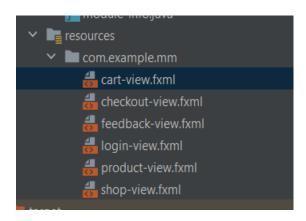
STRUCTURE AND CODE PRESENTATION



The structure of the shop is based on 4 categories:

- -the controllers, which control the actions performed on windows
- -the models- which define the models used for this project: the products and the customers
- -the services- which realize the connection between the shop and the data base where the information is stored

-the database queries: where the commands used from the database are stored.



The views from Java FX (and with the use of Scene Builder) – which help to create the interfaces of the pages, as well as having an overview of the appearance



Controller's example:

Model example:

```
| package com.example.mm.models; | public class Product {
| private Long id; | private String name; | private String name; | private String description; | private String description; | private static Long currentProductId; | private string description; | private sta
```



Service Example:

Database query example:

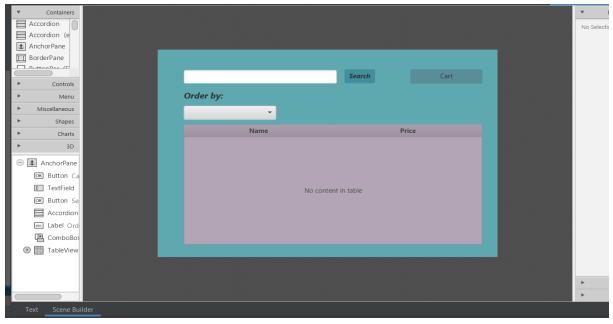


Main:

```
Discontroller
Cart.Controller
```

View example:





FURTHER IMPROVEMENTS FOR THIS PROJECT

One possible improvement for this project could be the addition of images for each product as well as some changes to the layout of the pages so that they look friendlier.